Docket No.: 20846/0205032-US0 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Jun Hirabayashi et al.

Appli	cation No.: 10/596,704	Confirmation No.: 9747 Art Unit: N/A				
Filed:	June 22, 2006					
For:	SUGAR CHAIN STRUCTURE PROFILING TECHNIQUES	Examiner: Not Yet Assigned				
	INFORMATION DISCLOSUR	E STATEMENT (IDS)				
	nissioner for Patents 3ox 1450					
	ndria, VA 22313-1450					
Dear :	Sir:					
be co relyin	This Information Disclosure Statement is s a nation as formation set forth natidered during the pendency of the above-iden g on the filing date of the above-identified apparation.	tified application, and any other application				
(Chec	 This IDS should be considered, in accord k one of the boxes A-D) 	ance with 37 C.F.R. 1.97, as it is filed:				
	A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above identified national application					
x	x B. before the mailing date of a first office action on the merits, or a first office action after filing a request for continued examination.					
	C. after (A) and (B) above, but before final rejection or allowance, and Applicants have made the necessary statement in box "i" below or paid the necessary fee in box "ii" below.					

(check one of the boxes "i" and "ii" below:)				
i. Counsel states that, upon information and belief, each item of information listed herein was (check one of boxes (a) or (b))				
(a) first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or				
(b) not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.				
 ii. A check for the fee set forth in 1.17(p), presently believed to be \$180, is enclosed. 				
D. after (A), (B) and (C) above, but before payment of the issue fee: Applicant petitions under 37 C.F.R. 1.97(d) for the consideration of this IDS. Under 37 CFR 1.17(i) a check in the amount of \$180.00 is enclosed. Counsel certifies that, upon information and belief, each item of information listed herein was				
(check one of the boxes "a" and "b" below:)				
(a) first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or				
(b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filine of this IDS.				

2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO/SB/08) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A, B and/or C and fill in blanks, if appropriate.)

Application No.: 10/596,704

X A. Pursuant to the 37 C.F.R. § 1.98(a)(2)(ii), a copy/copies of the U.S. Patent(s) and/or U.S. Patent Application Publication(s) on PTO/SB08 is/are not being submitted. B. Document(s)
< NSERT SERIAL NO. & FILING DATE >
Applicant identifies these documents by attaching hereto copies of the forms PTO-892, PTO-1449 and/or PTO/SB/08 from the files of the prior application(s) or a fresh PTO/SB/08 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.
x 3. Cite No(s). BB through BF are not in the English language. In accordance with 1.98(c), Applicant states:
X An English translation of each document (or of the pertinent portions thereof), or a copy of each corresponding English- language patent or application, or English-language abstract (or claim) is enclosed.
The requirement for a concise explanation of the relevance of any foreign language document is a satisfied by the attached search report; citation of the documents cited in the search report shall not be construed as an admission that they are or are considered to be, material to patentability of the subject matter claimed herein (See MPEP \$609).
A concise explanation of the relevance of document(s) is set forth as follows: [Insert concise explanation of relevance]
A concise explanation of the relevance of document(s) can be found on page(s) of the specification.
A concise explanation of document(s) can be found on the attached sheet.

Docket No.: 20846/0205032-US0

Docket No.: 20846/0205032-US0

_	No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 in the preamble to the final rules; 1135 OG 13 at 20).
_	

x 5. Other information being provided for the examiner's consideration follows:

An International Search Report, dated October 19, 2004, which issued during the prosecution of International Patent Application No. PCT/JP2004/009600 which corresponds to the present application.

An International Preliminary Report on Patentability, dated July 24, 2006, which issued during the prosecution of International Patent Application No. PCT/JP2004/009600 which corresponds to the present application.

6. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentiability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless other-wise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

Early and favorable consideration is earnestly solicited.

The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Deposit Account No. 04-0100.

Dated: February 2, 2007

Respectfully submitted,

By Louis J. DelIvidice
Registration No. 47,522

DARBY & DARBY F. C.
P.O. Box 527

New York, New York 10150-5257

(212) 527-7701 (Fax)

Attorneys/Acent For Aurolicant

PTO/SB/08A/B (03-05)
Approved for use through 03/31/2007 OMS 0501-0231
U.S. Patent and Trademark Office; U.S. OEPARTMENT OF COMMERCE

Approved for use through 0301/0307 OMB 0501-00

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark Office, U.S. OEPARTMENT OF COMMENT

U.S. Patent and Trademark OFFICE

U.S. Patent and Trad

Substitute for form 1449/PTO				Complete If Known		
-				Application Number	10/596,704-Conf. #9747	
IN	NFORMATION	1 DI	SCLOSURE	Filing Oute	June 22, 2006	
S	TATEMENT E	3Y /	APPLICANT	First Named Inventor	Jun Hirabayashi	
_				ArtUnit	N/A	
	(Use as many shi	eets at	a necessary)	Examiner Name	Not Yet Assigned	
heet	1	of	2	Attorney Docket Number	20846/0205032-US0	

			U.S. P/	TENT DOCUMENTS	
Examiner Intals*	Cite No.1	Cocument Number Number Kind Code ² (Filmown)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, When Relevant Passages or Relevan Figures Appear
	AA*			Miyamura et al.	
	AB*	US-6.054.047	04-25-2000	Hindsgaul et al.	
	AC*	US-20020074513-A1	06-20-2002	Abel et al.	
	AD*	US-7,058,678	06-06-2006	Markman et al.	
	AE*	US-10/596,692		National Institute of Advanced	

	FOREIGN PATENT DOCUMENTS							
Examiner	Cate No.	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Г		
initials*		Country Cods*-Number*4Cnd Code* (Finown)	Date MMCD-YYYY	Applicant of Cited Document		ľ		
	BA	WO-00-68688	11-16-2000	Healthcare Technologies Ltd et al.		Г		
	BB	JP-7-112996	05-02-1995	Takara Shuzo Co		г		
	BC	JP-8-201383-A	08-09-1996	Fukui, E., et al		R		
	BD	JP-2001-013125	01-19-2001	Synsorb Biotec Inc		г		
	BE	JP-2002-544485	12-24-2002	Markman O		г		
	BF	JP-2003-501654	01-14-2003	Abel AP, et al		Г		

"EVAMEN" In that if generous considered, whether or we classics is in continuous with MFCF (61). Draw this through class of not in continuous end of the c

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, citalog, etc.), date, page(s), volume-issue number(s), publisher, oily and/or country where publisher.					
-	CA .	Nippon Kogyo Shinbun, July 2, 2003, pg. 20.					
	СВ	Arata, Y., et al. "Application of Reinforced Frontal Affinity Chromatography and Advanced Processing Procedure to the Study of the Binding Property of a Ceenorhabditis Elegens Gelectin' Journal of Chromatography, January 5, 2001, 905 (1-2), pp. 337-43.					
	СС	Arata, Y., et al. "Sugar Binding Properties of the Two Lectin Domains of the Tandem Repeat- type Galectin LEC-1 (NS2) of Cenor/habdits elegans." Journal of Biological Chemistry, February 2, 2001, Vol. 276, No. 5, pp. 3098-77.					
	CD	Hirabayashi, J., et al. "Reinforcement of Frontal Affinity Chromatography for Effective Analysis of Lectin-Oligosaccharide Interactions." Journal of Chromatography, August 25, 2000, 690(2), pg 261-71.					
	CE	Hirabayashi, J., et al. "Oligosacchanide Specificity of Galectins: A Search by Frontal Affinity Chromatography." Blochimica et Biophysica Acta, September 19, 2002, 1572(2-3), pg. 232-54.					
	CF	Hirabeyashi, J., et al. "Frontal Affinity Chromatography." Tanpakushitsu Kakusan Koso (Protein, Nucleic Acid and Enzyme), June 2003, 48(6 Suppl.), pg. 1206-12.	4				
	CG	English Translation of Hirabayashi, J., et al. "Frontal Affinity Chromatography." Tanpakushitsu Kakusan Koso (Protein, Nucleic Acid and Enzyme), June 2003, 48(8 Suppl.), pg. 1206-12.					
Examiner	$\overline{}$	Date					

PTOISB06A/B (06-06)

Approved for use through 03/51/2007. OMB (651-003)

U.S. Patent and Tassimant Office: U.S. DEPARTMENT OF COMMERCE
respond to a collection of information unless it contains a valid OMB.

Subelitate for form: 1449/PTO				Complete if Known		
				Application Number	10/596,704-Conf. #9747	
INFO	ORMATI	ON DISC	CLOSURE	Filing Date	June 22, 2006	
STA	TEMEN	T BY AF	PLICANT	First Named Inventor	Jun Hirabayashi	
				Act Unit	N/A	
	(Use as man	y sheefs as ne	cessary)	Examiner Name	Not Yet Assigned	
Sheet	2	of	2	Altomey Docket Number	20846/0205032-US0	

СН	Hirabayashi, J., 'Dai 53 Kai Japanese Electrophoresis Society Symposium Post Genome Kenkyu no PERSPECTIVE: Functional Glycomics', June 30, 2003, pg. 4-6.
CI	Hirabayashi, J., 'Dai 24 Kai The Japanese Society of Carbohydrate Research Yoshishu', The Japanese Society of Carbohydrate Research, July 3, 2003, pg. 7.
Ci	Hirabayashi, J., "Lectin Affinity o Mochilla Glycome Kaiseki Gijutsu." Tanpakushitsu Kakusan Koso (Protein, Nucleic Acid and Enzyme), Vol.48, No. 11, August 10, 2003, pg. 1534-1541, 1433.
CK	Hirabayashi, J., "Seimelsa o Rikal suru - Tosa Kenkyu no Genjo." Nikkel Science, Vol. 33, No. 11, November 1, 2003, pg. 116.
CL	Nakamura, Sachiko, "Comprehensive Interaction Analysis Between Plant Lectins and PA-oligo Saccharides by an Automated FAC System." Seikagaku, Vol. 75, No. 8, August 25, 2003, pg. 1047 (#4P-068).
СМ	International Search Report dated October 19, 2004 issued for corresponding International Application No. PCT/JP 2004/009500.
CN	International Preliminary Report on Patentability dated July 27, 2006 issued for corresponding international Application No. PCT/IP2004000600.

*EXAMINER, Initial if inference considered, whether or not clasion is in conformance with MPEP 60s. Draw line through cliation if not in conformance and not considered, include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). 'Applicant is to place a check mark how if English tanguage Translation is ettached.

Examiner	Date
Examiner Signature	Considered